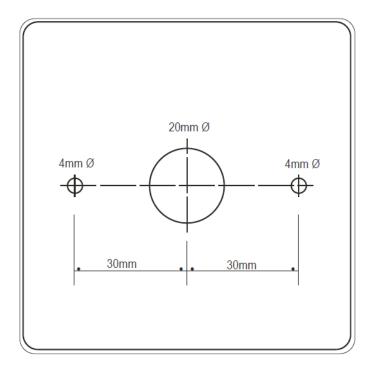
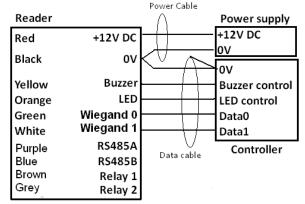
Drilling template

- 20mm (0.79") diameter hole for wire entry
- 2 x 4 mm (0.16") diameter holes for mounting screws
- Inner reader dimension is 88mm x 88 mm (3.47" x 3.47")
- Assemble reader outer dimension is 90mm x 90mm (3.54" x 3.54")
- Reader corner radius is 4mm (0.16")



Wiring diagram



- A shielded cable is recommended to be used. The shield is connected to controller 0V reference
- Maximum wiegand data cable length: 150 meters (500 feet)
- Buzzer and LED are low activated.
- RS485 and Relay are only for optional use
- Insulate all un-used wires (do not terminate)

Regulatory Information

C-Tick: This device is C-Tick complied

CE: This device has passed all relevant tests and obtained CE approval.

FCC: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause interference and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Warning: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try

to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressively approved by BQT Solutions could void the user's authority to operate this

Specifications

Output protocols	Wiegand or RS485	
Power requirement	8VDC to 16VDC (nominal operating voltage 12VDC)	
Current	90mA (Average)	
consumption	190mA (Peak)	
Read range	20mm to 40mm (0.8" to 1.6") at 12VDC	
	depends on the type of card used	
Relay Rating	80mA	
Operating	-25°C to +65°C (-13°F to +149°F)	
temperature	-23 C (0 +03 C (-13 F (0 +143 F)	
Relative humidity	90% max, operating non-condensing	
Reader dimensions	90mm(L) x 90mm(W) x 28mm(D) (3.54" x 3.54" x 1.10")	
Status LED	Green & Red	
Audible tone	Internal and external buzzer control	
Keypad	3 x 4 Keypad illuminated	
Colour finish	Charcoal	
IP rating	IP65	







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The product is designed by BQT Solutions (Australia) Pty Limited.

For more information and contact details please visit,

INSTALLATION GUIDE

BT817

In Australia

Installation

Remove the cover by holding the unit by the rim and pushing the reader out with your thumbs.



Note: DO NOT use a screw driver or other implement to remove cover

If necessary, drill holes in the wall for the mounting screws or mounting box on which the reader unit will be placed. (Use the Drilling Template provided overleaf).

- 1. Place the controller and power supply cable through the grommet hole.
- 2. Drill the holes as indicated in the template.

Note: Make sure that you don't drill through the cable.

Wire connection

Note:

Power to the unit is provided from the listed control unit or from a separately UL listed 12V DC power-limited, access control power source. DO NOT supply power during installation.

Wiring methods shall be in accordance with the Electrical wiring regulation in your country / region.

Check your circuit diagram for the colour coding of the circuit wiring. The reader can be damaged beyond repair if the wiring is connected incorrectly. This will void the warranty.

1. Connect the OV wire to the power OV line;

Note: The OV line of all power supplies must be connected to a common OV reference point.

- 2. Connect the Wiegand data wires;
- 3. Connect the Buzzer and LED wires;
- 4. Connect 12V DC wire;
- 5. Place reader on the wall (Make sure the wires are not crushed. This will void the warranty if damage occurs)
- 6. Insert and hand tighten the screws;
- 7. Check that the reader is level before tightening the screws;

Note: Excessive tightening of screws may deform the casing, resulting in a damaged unit. This will void the warranty.

- 8. Turn on the 12V DC power to power up reader.
- Allow 5 10 seconds for reader to finish initialization (depends on the application). Make sure reader is functioning correctly according to the application specification.

External Use

• Make sure the wire bundle to the reader has an IP rating of at least IP65

Handling

- Handle the reader with care. DO NOT damage or drop unit before installation. This will void the warranty.
- If the case is damaged, the reader may not be to the specified IP rating. Replace the reader if the case is damaged.

Maintenance

• Once installed the reader requires no maintenance.

Troubleshooting

Problem	Troubleshooting steps
Power on reader – reader does not start up	Check connections Check the voltage at the reader Check the current capability of the power supply
Power on reader – reader keeps beeping	Check buzzer line Check the voltage at the reader Check the current capability of the power supply
Power on reader – LED stays green	1. Check LED line
Present a card to reader – a beep is heard but reader does not output any data	Check whether the card has data encoded Check the wiegand connection to controller Check the voltage level on wiegand data lines
Present a card to reader – no response from reader	Try a known working card Check if the reader requires to be configured with a configuration card

If the problem still persists, please contact your distributor for technical support.

Warranty

Unless specified otherwise, the Company warrants to the Customer that' BQT Solutions Branded Products' (excluding third party products and software) are covered by a return to base warranty on defects in materials and workmanship affecting normal use for a period of the Warranty offered under the Standard Terms and Conditions of Sale from BQT invoice date ('Standard Warranty')

This standard warranty does not cover damage, fault, failure or malfunction due to external causes including; accident, misuse, problems with electrical power, servicing not authorised by the Company, usage and/or storage and/or installation not in accordance with Product instructions, failure to perform required preventative maintenance, normal wear and tear, act of God, fire, flood, war, any violent or similar occurrence; any attempt by any person other than Company personnel or any person authorised by the Company to repair or support the Products and problems caused by use of parts and components not supplied by the Company. The standard warranty does not cover any items that are in one or more of the following categories: software; external devices; accessories or parts added to the product after the product has been shipped from BQT Solutions.

During the warranty, period beginning on the invoice date, the Company will repair or replace faulty products (at its absolute discretion) returned to its' factory. The Customer must prepay shipping and transportation costs and insure the shipment or accept the risk of loss or damage during such transportation.

The Customer shall be solely responsible for determining suitability for use and the Company will, in no event, be liable in this respect. This standard warranty is given in place of all warranties, conditions, terms, undertakings and obligations implied by statute, common law, trade usage, and course of dealing or otherwise including warranties or conditions of merchantability, fitness for purpose, satisfactory quality and / or compliance with description, all of which are hereby excluded to the fullest extent permitted by law.